

# SECTION 10260 HANDRAILS: ROUND

## SUGGESTED SPECIFICATIONS

### PART 1 – GENERAL

#### 1.01 Summary

- A. Wall Protection Systems to include:
  - 1. High-Impact Handrails
- B. Related Sections
  - 1. Wall blocking between framing studs for mechanical fasteners: Section 09250 Gypsum Board Systems

#### 1.02 References

- A. American Society for Testing and Materials (ASTM)
- B. National Fire Protection Association (NFPA)
- C. Uniform Building Code (UBC)

#### 1.03 Submittals

- A. Product Data for each type of handrail specified
- B. Test Data detailing compliance with specifications
- C. Detail Drawings depicting product dimensions, accessories, installation methods, and accessories
- D. Installation Instructions detailing in writing manufacturer's recommended installation methods for all types of wall construction and substrates
- E. Maintenance Instructions outlining manufacturer's recommended cleaning, refinishing and repair instructions
- F. Product Samples to include each type of handrail specified, and samples of manufacturer's standard colors and patterns
- G. Manufacturer's Statement of Warranty

#### 1.04 Warranty

- A. Manufacturer to provide 10-year warranty against structural failure and 10-year warranty on finish, as per manufacturer's terms and conditions

#### 1.05 Quality Assurance

- A. Code compliance: Provide handrails that comply with the following requirements of regulatory agencies and the quality control of Kwalu
- B. Fire Performance Characteristics: Handrails to conform with NFPA Class A fire rating, and surface burning characteristics, as determined by ASTM E-84 (Steiner tunnel test), shall be a flame spread of 0-25 and smoke development of 350-450
- C. Self-Extinguishing: Handrails to have a CC1 classification, as referenced in UBC 52-4-1988 and tested in accordance with ASTM D-635-74, Standard Test Method for Rate of Burning of Self-Supporting Plastics in a Horizontal Position
- D. Impact Strength: Provide handrails that have an impact strength of 30.2 ft-lbs/inch of thickness, as specified in ASTM D-256-

- 90b, Impact Resistance of Plastics
- E. Chemical Stain Resistance: Provide handrails that are resistant to staining when tested in accordance with applicable provisions of ASTM D-543
- F. Fungal and Bacterial Resistance: Provide handrails that do not support fungal or bacterial growth as tested in accordance with ASTM G-21 and ASTM G-22
- G. Single Source Responsibility: Provide all wall protection systems and components manufactured by the same company to ensure compatibility of color, texture, and other properties

#### 1.06 Delivery, Storage and Handling

- A. Deliver materials to the jobsite in unopened factory packaging
- B. Inspect materials upon delivery to ensure that all specified product components and accessories received in good condition
- C. Store material flat in original packaging in a climate controlled location, away from direct sunlight

#### 1.07 Project Conditions

- A. Materials must be acclimated to project conditions between 65°F and 80°F at least 24 hours prior to installation
- B. Install wall protection systems only after the facility's permanent environmental conditions have been established

### PART 2 – PRODUCTS

#### 2.01 Manufacturer

- A. Kwalu LLC, Ridgeland, SC 29936, Phone: 800-405-3441, Fax: 843-726-9230, web site: kwalu.com
- B. Substitutions: Not permitted
- C. Provide all wall protection products and components from a single manufacturer

#### 2.02 Materials

- A. Acrylic/polyvinyl chloride co-polymer: Extruded material to be high-impact resistant, stain and chemical resistant

#### 2.03 Manufactured Units

- A. Polymer handrail components to be manufactured with a simulated wood grain. The surface finish shall be repairable in the field following manufacturer's repair procedures so that there is no discernible damage. Vinyl film wraps and surface printing methods strictly prohibited.
- B. Kwalu handrail to be Round Style with 1 3/8" diameter polymer extrusions to be chosen by architect from manufacturer's many wood grain patterns
- 2. Mounting brackets to be manufactured

with wood grained polymer to match rail

### PART 3 – EXECUTION

#### 3.01 Examination

- A. Verify that all wall surfaces are properly prepared to receive installation of handrails
- B. Complete all other finish operations prior to installing wall protection systems, including painting

#### 3.02 Preparation

- A. Clean all wall surfaces and substrates to remove dust, debris, and loose paint

#### 3.03 Installation

- A. Install all wall protection components in strict accordance with manufacturer's printed installation instructions

#### 3.04 Cleaning

- A. Clean all wall protection components in strict accordance with manufacturer's cleaning instructions

  
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